CLAIMS:

1. An embolic entrapment device being expandable from an unexpanded state to an expanded state, the device comprising: a flexible polymeric sheath, and two expansion members, each expansion member being engaged to an end of the sheath.

2. A system for treating a lesion within a body lumen comprising:

a guide wire;

an embolic entrapment device disposed about a portion of the guide wire in an unexpanded state, the device being expandable from the unexpanded state to an expanded state when the device is positioned across a lesion, the device comprising a flexible polymeric sheath, and two expansion members, each expansion member being engaged to an end of the sheath, in the expanded state each expansion member being positioned adjacent to a respective end of the lesion and at least a portion of an external surface of the sheath being in contact with at least a portion of the lesion, in the expanded state the device defining a flow path therethrough;

a stent delivery mechanism movably disposed about the guide wire, when the device is in the expanded state the stent delivery mechanism is constructed and arranged to be advanced along the guide wire and positioned within the flow path of the device, the stent delivery mechanism comprising a stent and a device for delivering the stent, when the stent delivery mechanism is positioned within the flow path of the device, the stent delivery mechanism is constructed and arranged to deliver the stent therein.

3. A method of treating a lesion within a body lumen comprising the steps of:

advancing a guide wire equipped with an embolic entrapment device disposed about a portion thereof through the body lumen to the lesion, the device comprising a flexible polymeric sheath, and two expansion members, each expansion member being engaged to an end of the sheath;

expanding the device from an unexpanded state to an expanded state, such that in the expanded state each expansion member is positioned adjacent to a respective end of the lesion and at least a portion of an external surface of the sheath being in contact with at least a portion of the lesion, in the expanded state the device defining a flow path therethrough;

advancing a stent delivery mechanism along the guide wire to the lesion;

positioning the stent delivery mechanism within the flow path of the device;

delivering a stent from the stent delivery mechanism into the flow path of the device wherein the stent in the delivered state provides structural support to the lumen and applies a compressive force to the lesion.